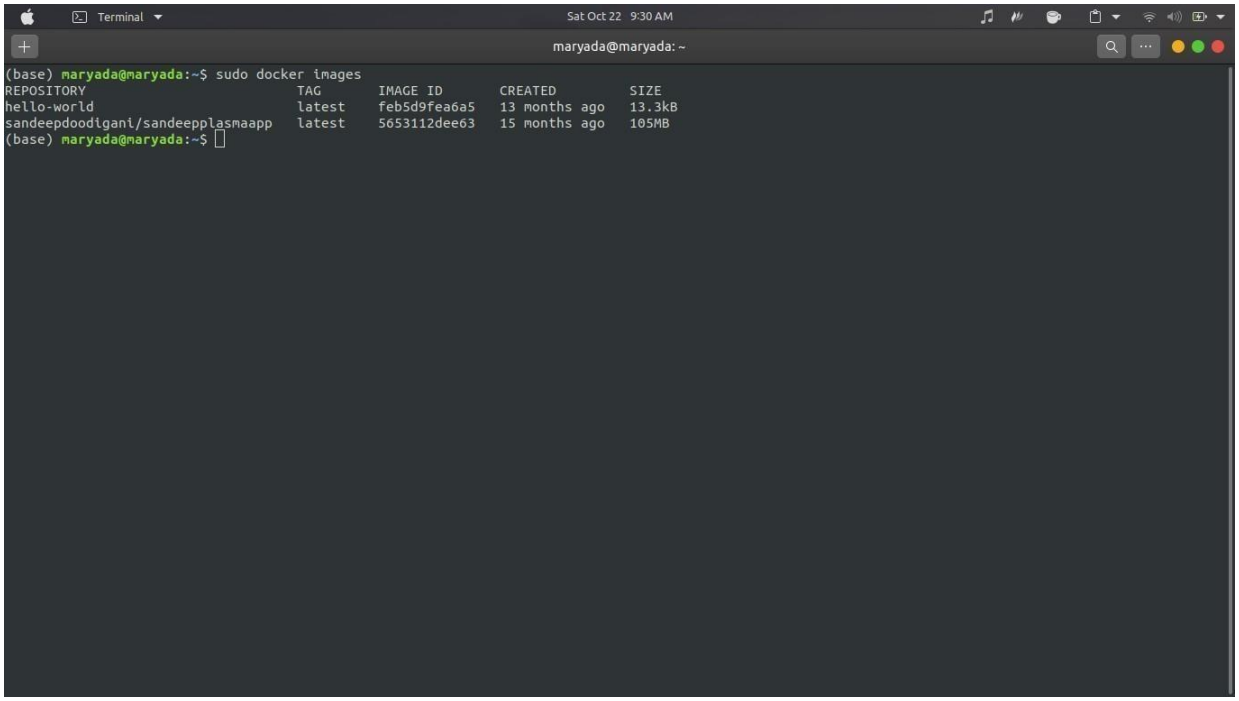
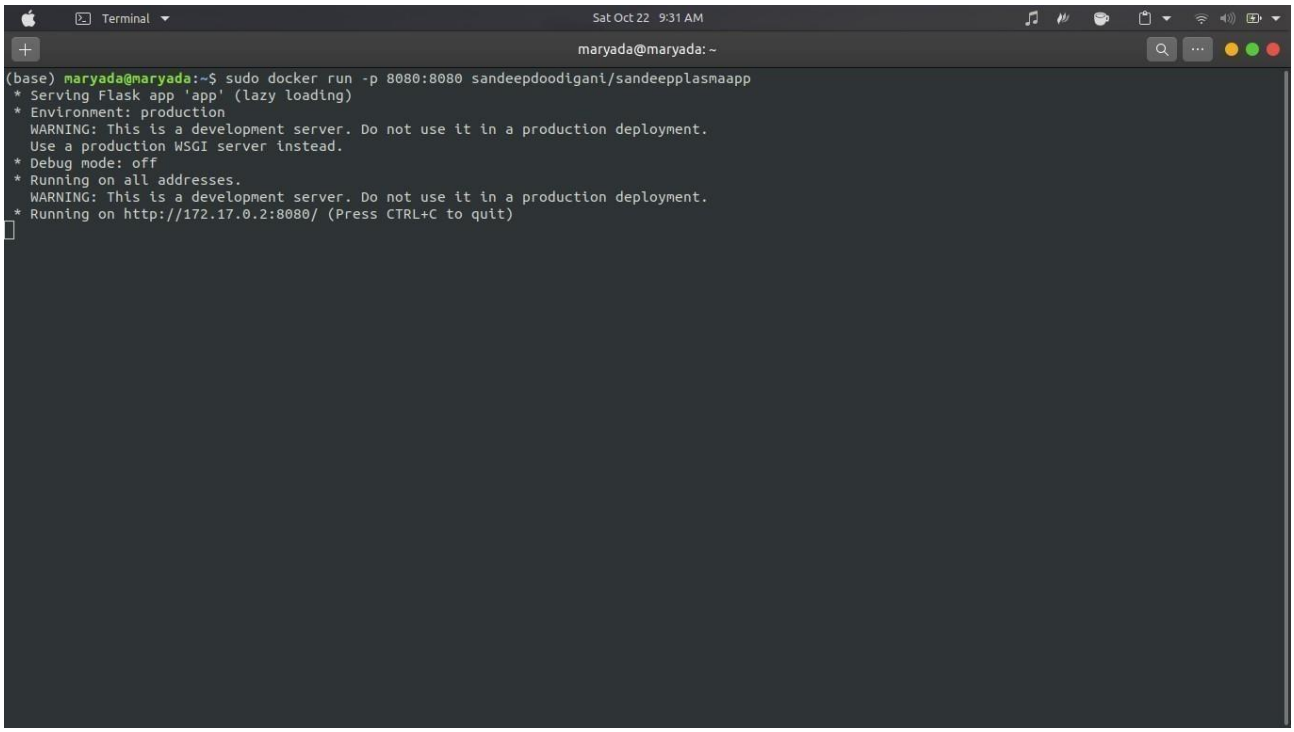
ASSIGNMENT -4

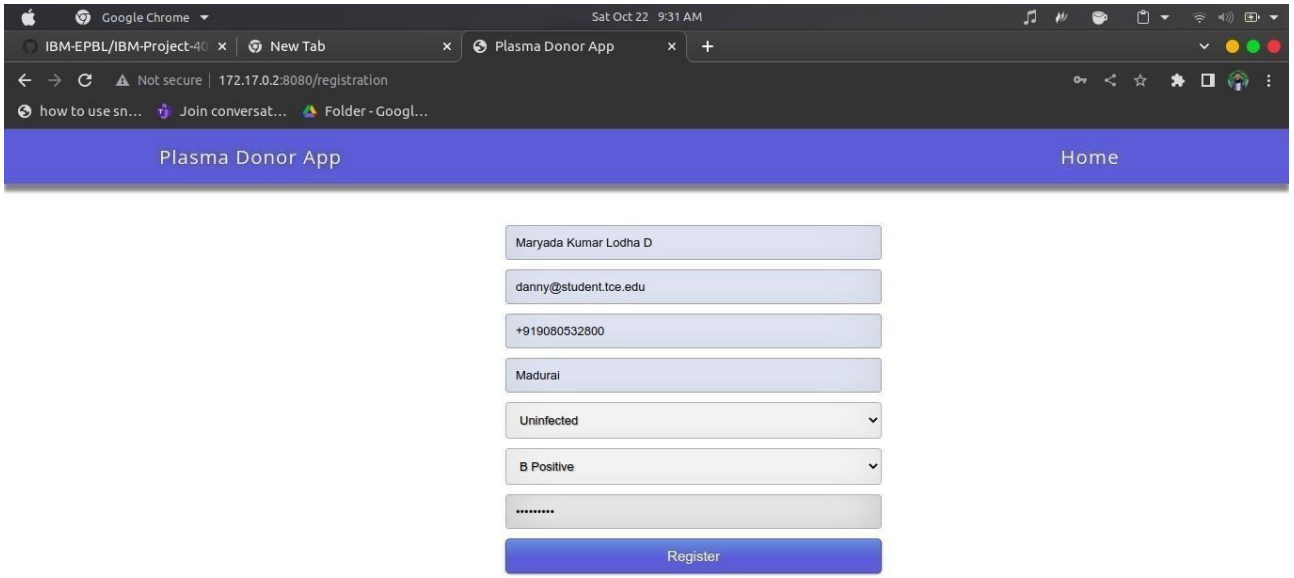
Date	25 NOVEMBER 2022
Team ID	PNT2022TMID28288
Student Name	NAVEEN RAJ G
Maximum Marks	2 Marks

1. **Pull an Image from docker hub and run it in docker playground.**

Pulled sandeepdoodigani/plasmaapplication and running in docker:





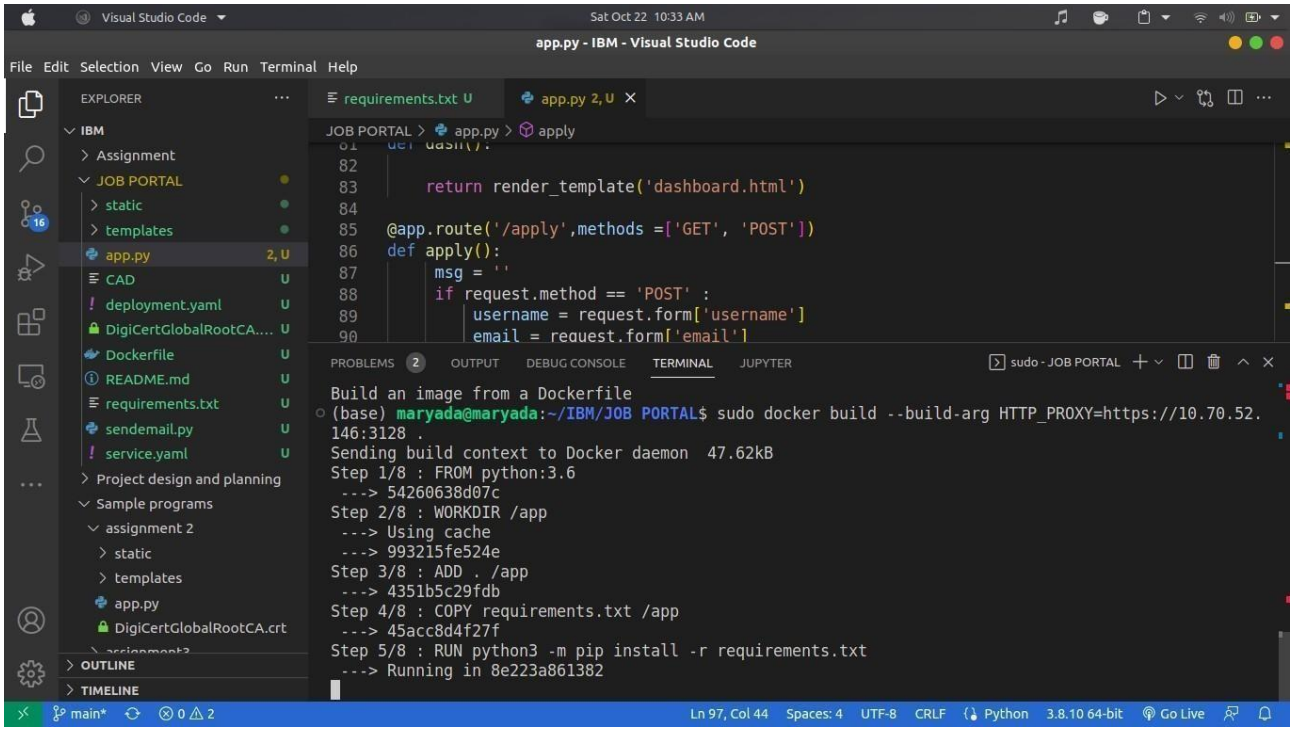


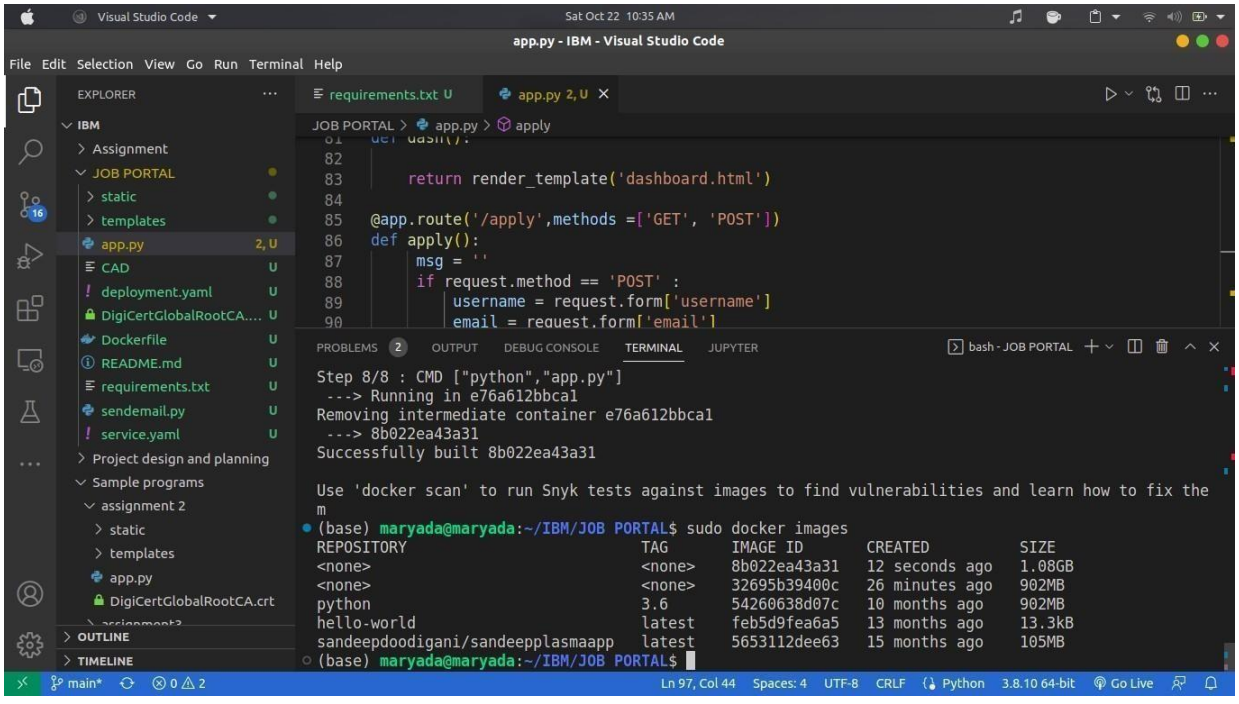
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

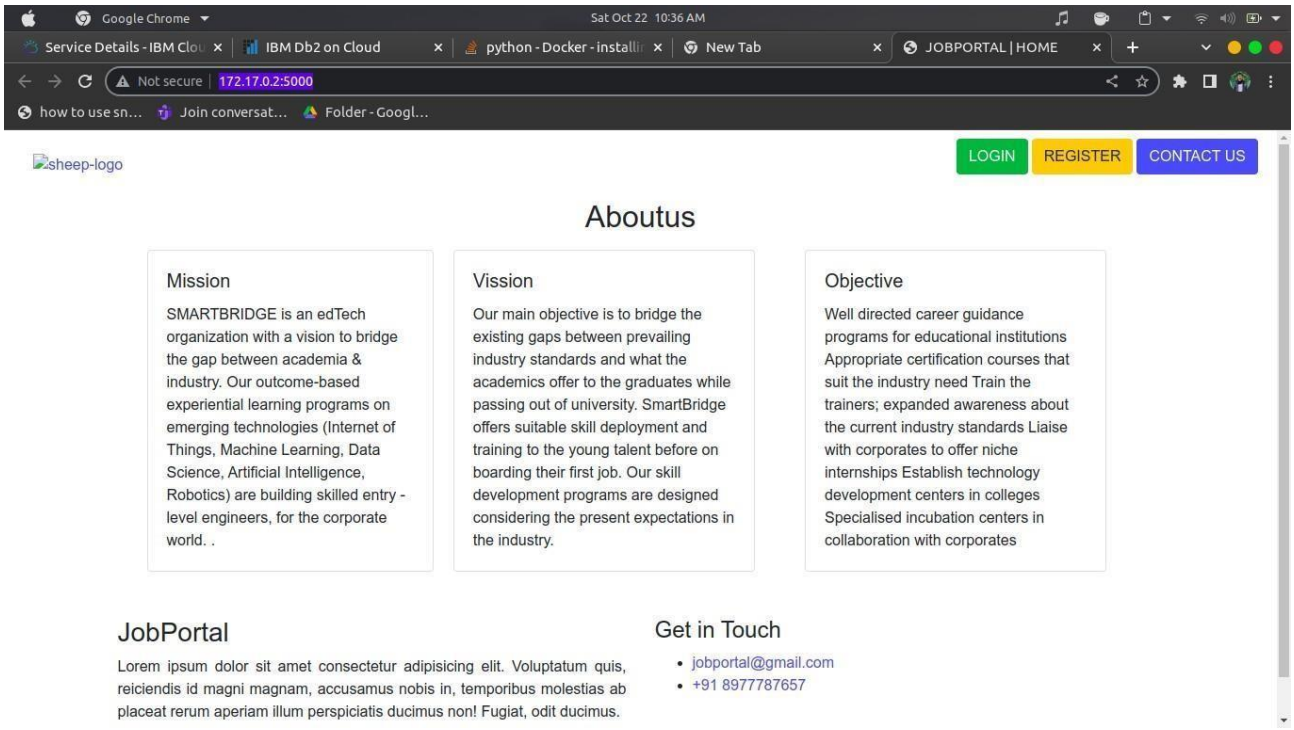
Dockerfile:

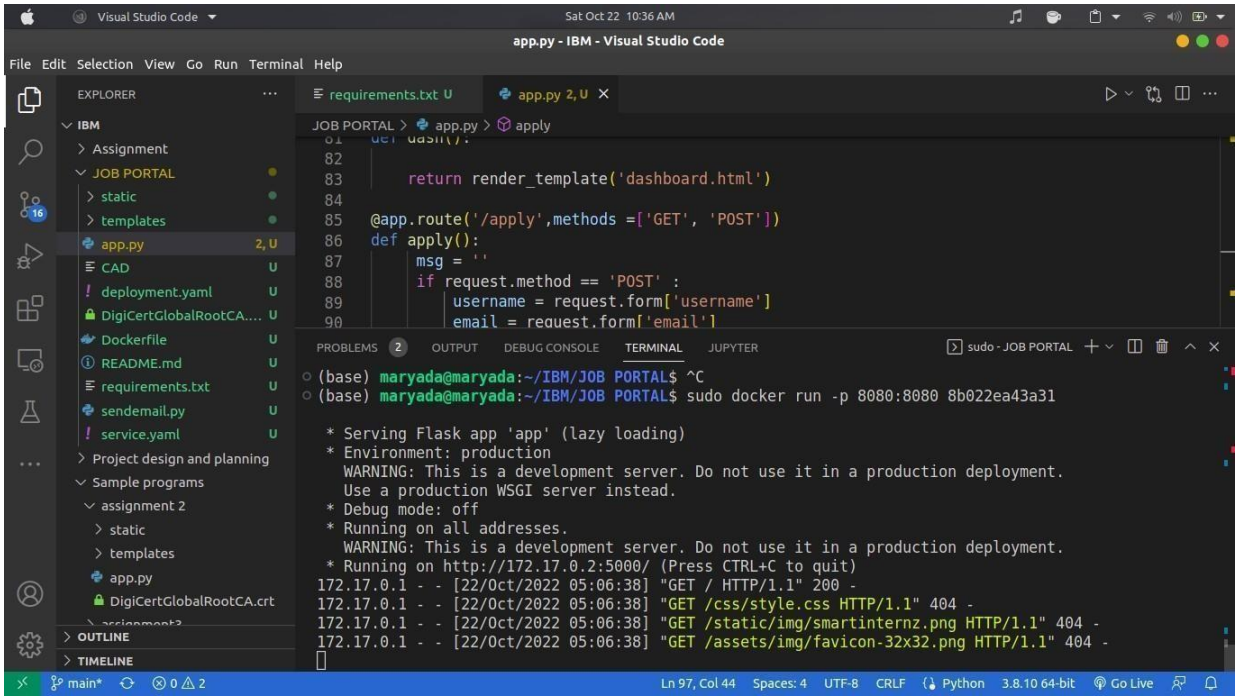
```
FROM python:3.6
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
RUN python3 -m pip install ibm_db
EXPOSE 5000
```

CMD ["python","app.py"]

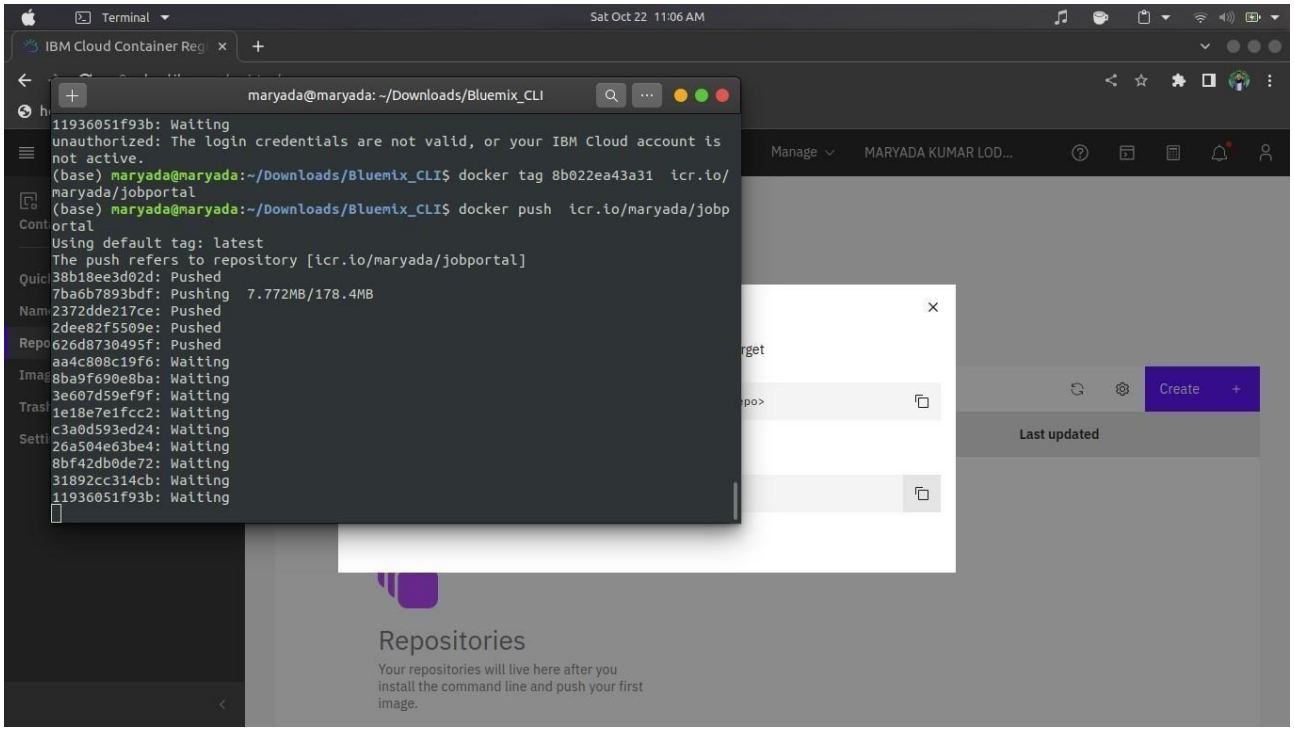


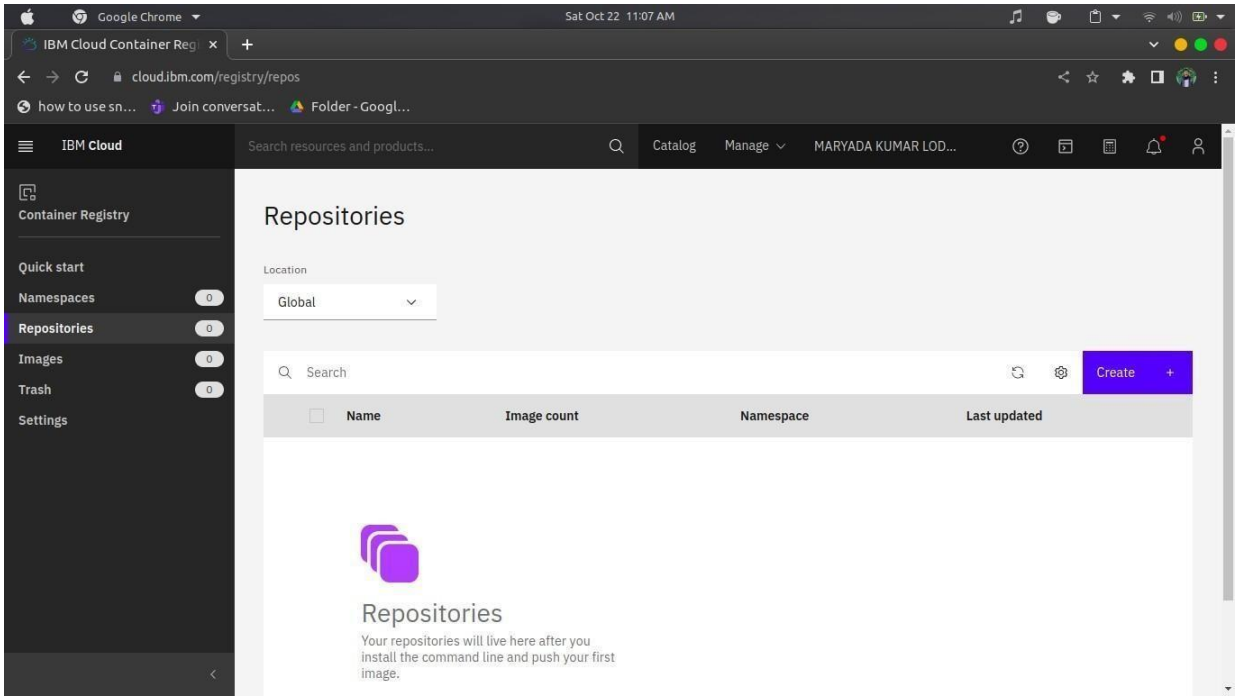


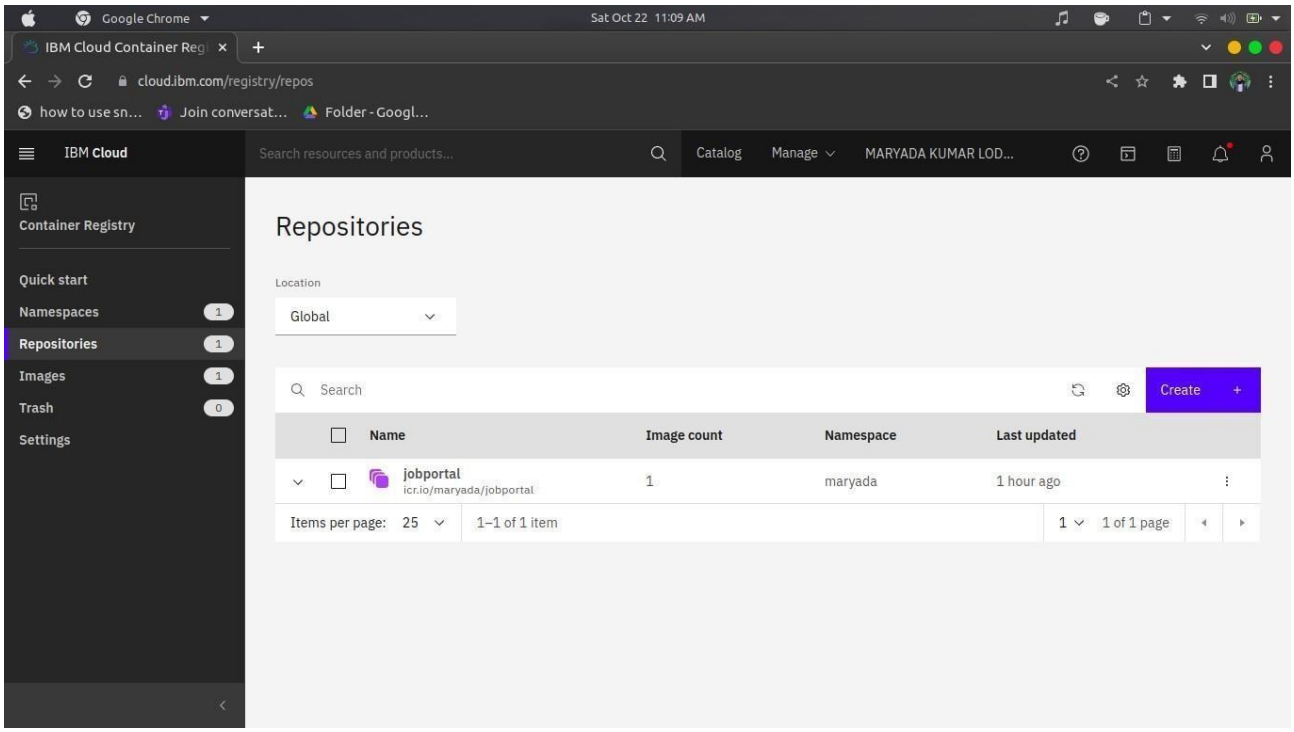

Google Chrome
Sat Oct 22 10:36 AM
Service Details - IBM Clou
IBM Db2 on Cloud
python - Docker - installi
New Tab
JOBPORTAL | HOME
Not secure
172.17.0.2:5000
how to use sn...
Join conversat...
Folder - Googl...
sheep-logo
LOGIN
REGISTER
CONTACT US
Aboutus
Mission
SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .
Vission
Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.
Objective
Well directed career guidance programs for educational institutions Appropriate certification courses that suit the industry need Train the trainers; expanded awareness about the current industry standards Liaise with corporates to offer niche internships Establish technology development centers in colleges Specialised incubation centers in collaboration with corporates
JobPortal
Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.
Get in Touch
jobportal@gmail.com
+91 8977787657


Visual Studio Code
Sat Oct 22 10:36 AM
app.py - IBM - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
IBM
Assignment
JOB PORTAL
static
templates
app.py 2, U
CAD U
deployment.yaml U
DigiCertGlobalRootCA.... U
Dockerfile U
README.md U
requirements.txt U
sendemail.py U
service.yaml U
Project design and planning
Sample programs
assignment 2
static
templates
app.py
DigiCertGlobalRootCA.crt
OUTLINE
TIMELINE
requirements.txt U
app.py 2, U
JOB PORTAL > app.py > apply
82
83 return render_template('dashboard.html')
84
85 @app.route('/apply',methods =['GET', 'POST'])
86 def apply():
87 msg = ''
88 if request.method == 'POST' :
89 username = request.form['username']
90 email = request.form['email']
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
JUPYTER
sudo - JOB PORTAL
(base) maryada@maryada:~/IBM/JOB PORTAL$ ^C
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker run -p 8080:8080 8b022ea43a31
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404 -
main*
Ln 97, Col 44
Spaces: 4
UTF-8
CRLF
Python
3.8.10 64-bit
Go Live

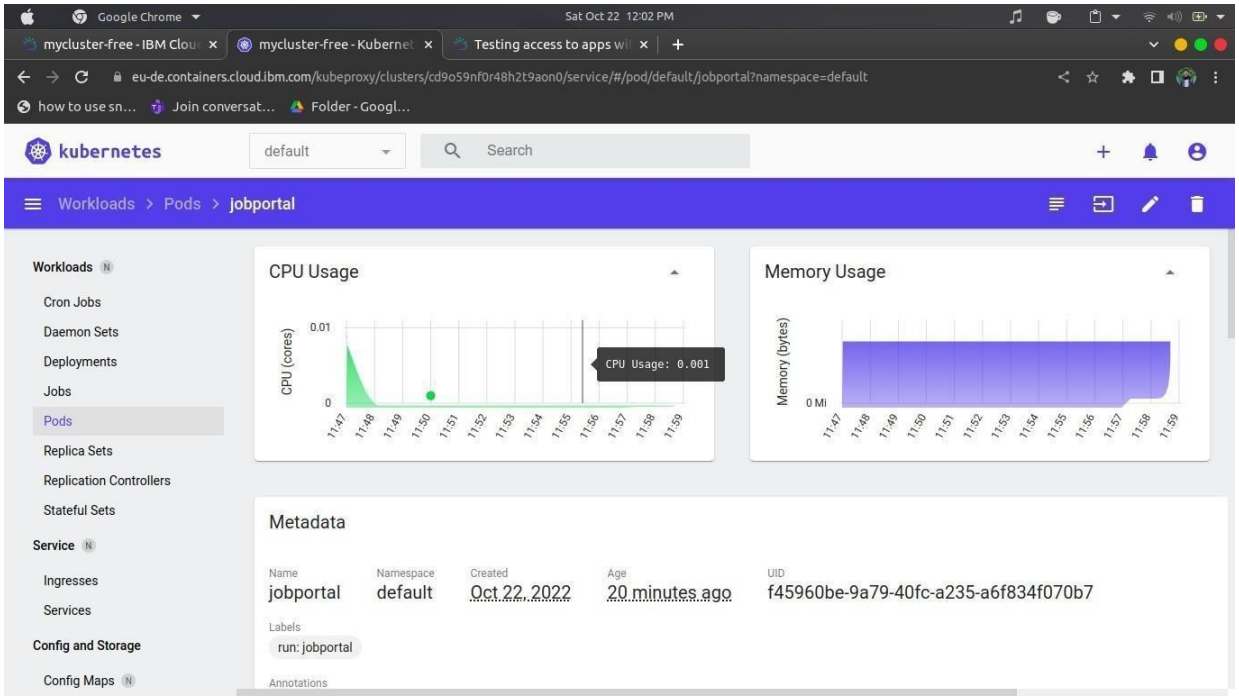
3. Create a IBM container registry and deploy helloworld app or jobportalapp.

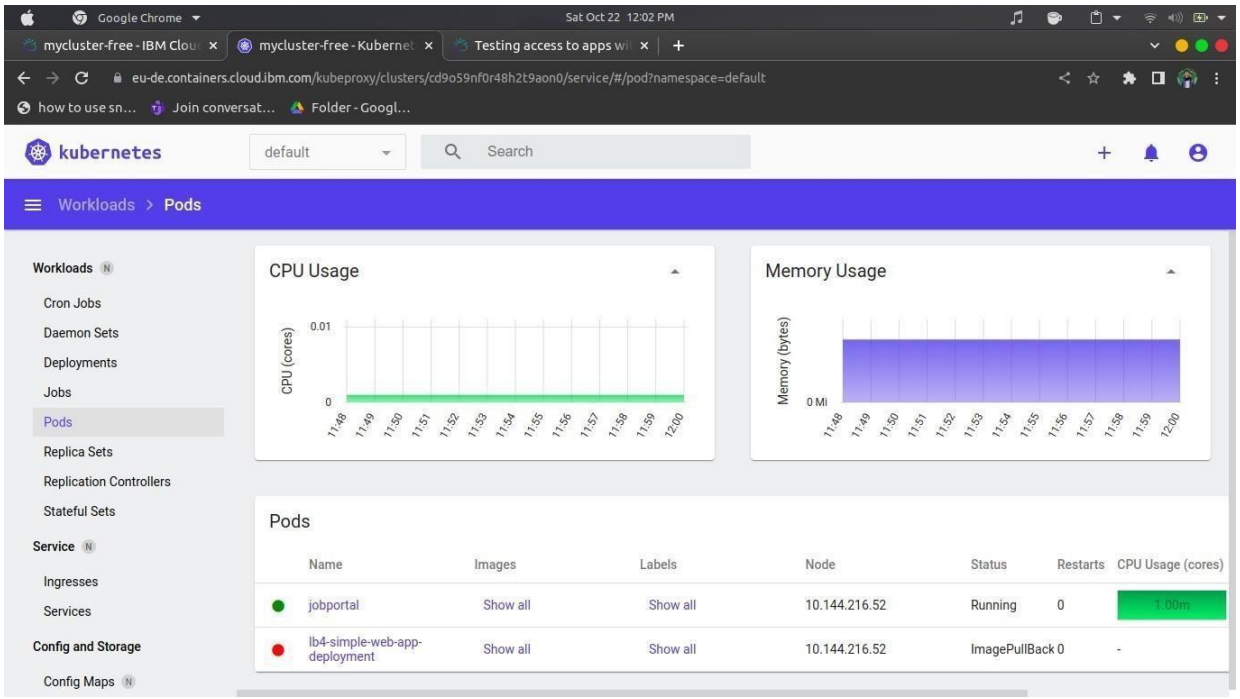






4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image andalso expose the same app to run in nodeport.




Google Chrome
Sat Oct 22 12:02 PM
mycluster-free - IBM Clou
mycluster-free - Kubernet
Testing access to apps wi
eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cd9o59nf0r48h2t9aon0/service/#/pod?namespace=default
how to use sn...
Join conversat...
Folder - Googl...
kubernetes
default
Search
Workloads > Pods
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Services
Config and Storage
Config Maps
CPU Usage
CPU (cores)
0.01
0
11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00
Memory Usage
Memory (bytes)
0 Mi
11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
jobportal
Show all
Show all
10.144.216.52
Running
0
1.00m
lb4-simple-web-app-deployment
Show all
Show all
10.144.216.52
ImagePullBack
0
-